









Work Order ID 58146




Monday, April 26, 2010 11:39:10 AM



Page 1

Item ID: D350-561-141 Accept  Setup Start 
Revision ID: 
Item Name: Single Cargo Mirror Assembly Stop 
Start Date: 4/26/2010 Start Qty: 1.00  Cust Item ID:
Required Date: 4/26/2010 Req'd Qty: 1.00  Customer:
Reference:

Approvals: Process Plan: MMF Date: 10-4-26 Tooling: _____ Date: _____ Run Start 
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
N/A	Rev N/A								
100  DC Document Control	DOCUMENT CONTROL Memo Photocopy bluefile and create labels per PPP D350-561-141 CHG003	0.00 0.00							<u>Solube</u> <u>BG 10/04/26</u>
105  Packaging Packaging	Pick Kit Memo	0.00 0.00							<u>10-4-26</u> <u>(10) SP</u>
110  QC Quality Control	QC4- 100% Inspect kits for completeness Memo	0.00 0.00							<u>(40)</u>

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Item ID: D350-561-141

Accept

Setup Start

Revision ID:

Stop

Item Name: Single Cargo Mirror Assembly

Start Date: 4/26/2010 Start Qty: 1.00

Cust Item ID:

Required Date: 4/26/2010 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run HoursDraw
NumberDraw
Rev.Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

0.00



Packaging

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D350-561-141

10-4-26 SP

130

0.00



QC

QC21- Final Inspection - Work Order Release

Memo

0.00

Quality Control

10/04/26

MF 104-26

W/O:		WORK ORDER CHANGES					
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Picklist Print

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Work Order ID: 58146

Parent Item: D350-561-141

Parent Item Name: Single Cargo Mirror Assembly


Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev
B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit
DD 10.03.15 verified by:EC

Start Date: 4/26/2010

Required Date: 4/26/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
D2011-101		Manufactured	No			105	Each	13.0000	1.0000			
												
6" Mirror												

10-4-26 SP

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST228

13

56795

13

Manufactured No

105

Each

4.0000

1.0000

10-4-26 SP

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST229

4

52669

4

Manufactured No

105

Each

37.0000

1.0000

10-4-26 SP

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST004

37

33585

2

40274

16

46634

19

1

D2012-105

Arm

D2012-107

Clevis

W/O:		WORK ORDER CHANGES					
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Parent Item: D350-561-141



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Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
--------------------	-------------	------	-----	---------	------	-------	---------	--------	-----------	-----	------	--------

D2012-111

Bracket

Manufactured No

105

Each

24.0000

1.0000

10-4-26 SP

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST004

24

40148

24

Manufactured No

105

Each

65.0000

1.0000

10-4-26 SP

D2012-115

Bracket, Clevis

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST004

65

25581

65

Manufactured No

105

Each

271.0000

2.0000

10-4-26 SP

D2022-101

Spacer

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST504

271

45885

71

50746

100

52325

100

2

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DD 10.03.15 verified by:EC

Start Date: 4/26/2010

Required Date: 4/26/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
D3629-1- 		Manufactured	No			105	Each	19.0000	1.0000		10-4-26	SL
Bracket												

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST244A

19

48560

19

Manufactured No

105

Each

11.0000

1.0000

10-4-26

SL

D3635-1

Gasket

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST076

11

52914

11

Manufactured No

105

Each

60.0000

2.0000

1

10-4-26 SL

D3635-3

Gasket

Warehouse Loc Qty Loc Code
Location

Main Warehouse

ST076

60

56399

60

2

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W/O:		WORK ORDER CHANGES								
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Parent Item Name: Single Cargo Mirror Assembly



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DD 10.03.15 verified by:EC

Start Date: 4/26/2010

Required Date: 4/26/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
D3646-1  Arm		Manufactured	No			105	Each	6.0000	1.0000 		10-4-26	sl

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST229

6

53892

6

Manufactured No

105

Each

13.0000

1.0000


10-4-26 sl

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST229

13

51615

2

52668

8

53893

3

Manufactured No

105

Each

89.0000

2.0000


10-4-26 sl

Warehouse Loc Qty Loc Code

Location

Main Warehouse

ST460

89

56381

89

2

D4070-041



Clamp

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit
DD 10.03.15 verified by:EC

Start Date: 4/26/2010


Required Date: 4/26/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
AN3-4A		Purchased	No			105	Each	1,473.000	3.0000			
											10-4-26 20	
Bolt												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST350	1473	
104214	312	
104291	300	
104322	200	
104374	200	
104625	300	
104817	161	

AN3-6A	Purchased	No				105	Each	250.0000	1.0000			
											10-4-26	sl
Bolt												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST351	250	
113149	50	
113359	200	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DD 10.03.15 verified by:EC

Start Date: 4/26/2010

Required Date: 4/26/2010

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
AN4-5A		Purchased	No			105	Each	302.0000	3.0000			
											10-4-26	sl
Bolt												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST356	302	
112933	6	
114108	96	
114330	200	

AN4-10A	Purchased	No				105	Each	63.0000	1.0000			
											10-4-26	sl
Bolt												

Warehouse	Loc Qty	Loc Code
Location		
Main Warehouse		
ST356	63	
111425	13	
113422	50	

AN960JD10	Purchased	No				105	Each	0.0000	8.0000			
											1114292	10-4-26 sl
Washer												

AN960JD416	Purchased	No				105	Each	0.0000	8.0000			
											1113706	10-4-26 sl
Washer												

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

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Parent Item: D350-561-141



Parent Item Name: Single Cargo Mirror Assembly

Start Date: 4/26/2010

Required Date: 4/26/2010

Comments: IPP A 07.07.26 new issue (DSI9379) EC verified by:JLM IPP rev
B 10.02.16 per ecn 10-523 EC verified by: DD IPP Rev:C add pick kit
DD 10.03.15 verified by:EC

Start Qty: 1.00

Required Qty: 1.00

Component Item ID/	Replacement	Mfg/	Bin	Primary	Last	Route	Unit of	Qty on	Remaining	Qty	Date	Status
MS21042L3		Purchased	No			105	Each	996.0000	4.0000			
											10-4-26 SL	
Nut												

Warehouse		Loc Qty	Loc Code
Location			
Main Warehouse			
ST300		996	
113537		46	
113644		950	
MS21042L4	Purchased	No	105
			Each
Nut			1,306.0000
			4.0000
			10-4-26 SL

Warehouse		Loc Qty	Loc Code
Location			
Main Warehouse			
ST139		2	
111827		2	
Main Warehouse			
ST300		804	
113422		112	
114108		684	
9063		8	
Main Warehouse			
ST463		500	
114416		500	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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REFERENCE ONLY

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D350-561 REV. C

REF. CANADIAN STC: SH91-20 ISSUE 2

REF. FAA STC: SH856NE

To reduce vibration, Dart has developed the D350-561-141/-143 Mirror Installations to replace the D350-561-041/-043 Mirror Installations. For customers with D350-561-041/-043 Mirror Installations at CHG 005 or earlier who would like to upgrade their installation, the DSI 9379-011 Upgrade Kit can be obtained from Dart. The components for DSI 9379-011 Kit are as defined in Section 1.0 below.

Customers upgrading their installation from D350-561-041/-043 to D350-561-141/-143 should follow instructions given in Figures 1 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

Customers who are installing a D350-561-141/-143, should refer to Figures 2 through 5 of DSI 9379 and refer to Installation Instructions D350-561 Rev. C as applicable.

This service instruction details the D350-561-141/-143 kits at CHANGE 003 or later, which use D4070-041 Clamps (replaces MS21919WDG7 clamps). For -141/-143 kits at earlier change numbers, the DSI-9379-013 Upgrade kit is available to replace the mil-spec clamps with more robust D4070-041 Clamps.

1.0 PARTS LIST

Qty -041	Qty -143	Qty -045	Qty -011	Qty -013	Part Number	Description
X	1				D350-561-141	SINGLE MIRROR INSTALLATION (REPLACES -041)
	X				D350-561-143	DUAL MIRROR INSTALLATION (REPLACES -043)
		X			D350-561-045	MIRROR KIT
			X		DSI-9379-011	UPGRADE KIT
				X	DSI-9379-013	UPGRADE KIT
		1			ID2011-101	MIRROR
					ID2012-105	ARM
					ID2012-107	CLEVIS
					ID2012-111	BRACKET
		2			D2012-113	CLAMP
					D2012-115	BRACKET
					ID2022-101	SPACER
1		1			D3014-1	LOCKNUT
			1		D3629-1	BRACKET
			1		ID3635-1	GASKET
			2		D3635-3	GASKET
			1		D3646-1	ARM
			1		ID3646-3	ARM
			2	2	ID4070-041	CLAMP
3			3		AN3-4A	BOLT
1					AN3-6A	BOLT
3			2	2	AN4-5A	BOLT
1					AN4-10A	BOLT
8			6		AN960JD10	WASHER
5			4	4	AN960JD416	WASHER
1		1			AN960JD416L	WASHER
4			3		MS21042L3	NUT (OR MS21042-3)
4			2	2	MS21042L4	NUT (OR MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

APPROVED
BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.02.12
CERT. NO.: SH91-20
ISSUE NO.: 2

C	D4070-041 WAS MS21919WDG7	CP	10.02.12
B	MS21919WDG7 WAS MS21929WDG7	DC	07.11.26
A	NEW ISSUE	MB	07.07.10
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9379	SHEET 1 OF 5
A. PROVED		TITLE	SCALE
DE APPR.		CARGO MIRROR UPDRAGE KIT	NTS
DATE	10.02.12	COPYRIGHT © 2007 BY DART AEROSPACE LTD	
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

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